

NEW 60-CAVITY DESIGN

MHT offers a **new 60-cavity design**, which was developed along the lines of the successful 128-cavity mold. Both molds are as precise as clock mechanisms.

While the 128-cavity mold is the mold with the greatest number of cavities for the Netstal PET-Line 3500, the 60-cavity design is the **"biggest" for Netstal PET-line 2000 and for KraussMaffei 175.**

The cooling technology of both molds constitutes a **fundamental difference to any competitors. Slides and neck rings are cooled**, which has a positive effect on cycle time and preform quality.

Due to the intelligent form structure in modular design, it was possible to realise a layout with 8x16 stacks for the 128-cavity mold and 6x10 stacks for the 60-cavity design making optimum use of the mold sizes.

For the 128-cavity mold three intermediate gaps ensure a **high level of stability in the slide frame** and thus guarantee that the stack parts have a long lifecycle. The mold is available for all standard size threads up to 30 mm.

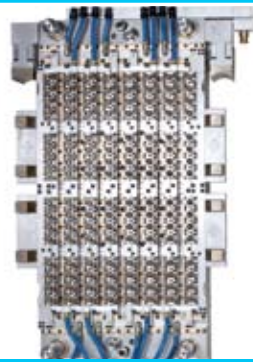
In total, both molds are provided with the most up to date MHT cooling technology and are **designed for low energy consumption** from hot runner to cooling.

60 and 128-cavity molds - Statistics

- **"Biggest" molds for** Netstal PET-line2000
KM 175
Netstal PET-line 3500
- **Modular design**
- **Cooled slides and neckrings**



60-cavity design



128-cavity mold



WANT TO BE PART OF THE MHT-TEAM? ■

MHT is looking for **sales agents in a number of countries**. Please get in touch with us if you are interested in joining our team.

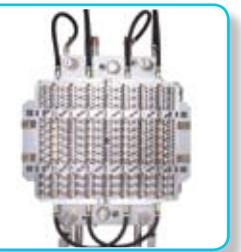
Please call **+49-6146-906-0** or ext. - 134

MHT - always near you



MHT REPAIR SET: 96 CAVITIES FOR HY-PET® 300, 128 CAVITIES FOR HYPET® 400 ■

PET preform producers utilizing HyPET® or G-Line® injection molding systems can now make use of a **newly developed repair solution** by MHT for conversion and refurbishing. ▶



MHTsaveBASE: CLEVER BASE FREE OF LICENSING CHARGES ■

A small change in the bottom area of preforms saves material and energy because what later becomes the **bottom of the bottle can be made thinner**. MHT is offering this design free of licensing charges. ▶



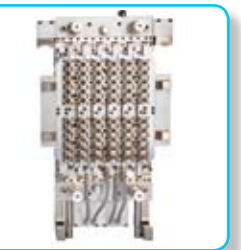
NEW LIGHTWEIGHT SOLUTIONS ■

Do you know MHT21LIGHT? A tip: It is **21 mm tall and only weighs 3.9 g**. This makes the new thread the **lightweight alternative** for owners of existing bottling plants. It is even **100% compatible with standard PCO 1810 closures!** ▶



NEW 60-CAVITY DESIGN ■

It is the **"biggest" mold for a 200 ton platform**: MHT offers a new 60-cavity design, which was developed along the lines of the successful 128-cavity mold. ▶



INDEX

- People
- Technology
- Hotrunner
- Project

IMPRESSUM

MHT Mold & Hotrunner Technology AG

Dr. Ruben-Rausing-Str. 7
D-65239 Hochheim/Main
Tel. +49 (0) 6146-906-0
www.mht-ag.de

Editorial contact:
Dr. Sabine Kob
skob@mht-ag.de



96 cavity mold for Husky HyPET® 300



Mold installation

Increase your output:
 96 cavities on HyPET® 300!
 128 cavities on HyPET® 400!
 Other platform optimizations possible on request.

MHT OFFERS REPAIR SOLUTION FOR HyPET® MACHINES

PET preform producers utilizing a HyPET® or G-line® injection molding system can now make use of a newly developed repair solution by MHT **for conversion and refurbishing.**

The repair set can be used **without any changes to the machines** or the handling, preferably with the conversion of a new preform design (weight, size, thread) or the mold revision (changed cavity quantity).

Advantages:

- Higher cavitation possible
- Water cooled plate (MHTcool/MAX®)
- Improved cycle time
- Energy savings

The repair solution comprises:

- Injection molding tool with hotrunner system,
- 3-step cooling plate (end of arm tool) for quick preform transport/aftercooling,
- Innovative MHT-unit for the effective aftercooling of preforms. Cold air supply and removal by means of special cooling pins. Separate handling-pins for secure preform ejection.

HyPET® and G-line® are U.S. registered trademarks of Husky Injection Molding Systems, Ltd., a corporation of Canada. MHT Mold & Hotrunner Technology is not in any way related to Husky Injection Molding Systems.

Repair Set - Statistics

- For conversions and refurbishments
- No changes to system necessary
- Special cooling pins
- Does not violate any Husky patents



Regular base, MHTsaveBASE

MHTsaveBASE: CLEVER BASE FREE OF LICENSING CHARGES

A small change in the bottom area of preforms saves material and energy because what later becomes **the bottom of the bottle can be made thinner.** MHT is offering this design free of licensing charges.

The bottom of a preform constitutes a critical area during the blowing of the bottle. Heat reaches it less efficiently than the side walls, the stretch to blow ratio is not at its optimum and so material remains unnecessarily thick at the centre.



Regular base, MHTsaveBASE



MHT21LIGHT



PCO 1810 (5.1g)
 MHT21LIGHT (3.9g)
 1881 (ISBT, 3.8g)



29/25 thread

Using the MHTsaveBASE geometry, heat can reach the bottom more easily and the **stretch to blow ratio is more attractive.** This allows the bottle to be blown optimally, which can **reduce the total weight by approx. 2 to 3 percent.**

In an 85 g preform, this results in 2.1 g less PET and in a 17.5 g preform the saving is still 0.4 g. In addition, further advantages are to be realised in the blowing performance.

MHT **has been offering its customers this design for many years** and now has also given it its own name: MHTsaveBASE, the preform with a specialised bottom. **Free of licensing charges** of course!

MHTsaveBASE - Statistics

- No licensing charges
- Low invest: Only gates and cores need to be replaced
- Weight reduction up to 3%

NEW LIGHTWEIGHT SOLUTIONS: MHT21LIGHT AND 29/25

Do you know MHT21LIGHT? A tip: It is **21 mm tall and only weighs 3.9 g.** This makes the new thread **the lightweight alternative** for owners of existing bottling plants. It is even **100% compatible with standard PCO 1810 closures!**

Lightweight solutions are literally in everyone's mouth and the bottle threads are constantly becoming shorter. After all, a weight **saving** of 1.3 g per preform quickly amounts to **hundreds of thousands of euros per year for major bottlers.**

However, a conversion from PCO 1810 (5.1 g / 21 mm length) to PCO 1881 ISBT (3.8 g / 17 mm) also means that bottling must be converted to be able to handle **plants** the new thread length. Here, up to **250,000 € in conversion costs** are quickly incurred – money that **can easily be saved** using the MHT21LIGHT.

For **non carbonated water** the MHT team now also offers a **thread measuring 29/25** (height 12.6 mm and weight 2.4 g). With it a market trend towards smaller threads was taken up.

Of course we also convert your molds to other lightweight threads like PCO 1881, 30/25, etc.

MHT21LIGHT - Statistics:

- Height: 21 mm, weight: 3.9 g
- Conversion costs for bottling plant from PCO 1810: 0 €

The MHT21LIGHT family:
 MHT21LIGHT-0
 MHT21LIGHT-HOTRegion
 MHT21LIGHT-PETCycle
 MHT21LIGHT-REUse
 MHT21LIGHT-FLATWater
 MHT21LIGHT-HOTFill